a mass corresponds to peptide with an alkylated cysteine

	09	120	180	240	300	360	420	480	540	541
	VAATGDGPDI	VEALSLIYNK	KYENGKYDIK	WAWSNIDTSK	LEAVNKDKPL	AASGRQTVDE	dtlkvgdivw	pfyvpaqhgf	yvgklktwyh	
	PDKLEEKFPQ	NGKLIAYPIA	LIAADGGYAF	GETAMTINGP	LENYLLTDEG	WYAVRTAVIN	vstpdgerai	desllvtpgh	nltvdvghtf	
	DIGIKVIVEH	YPFTWDAVRY	NLQEPYFTWP	YSIAEAAFNK	SPNKELAKEF	MPNIPQMSAF	FGScfaagtm	kgkqengqae	elylpvgkty	
	LAEVGKKFEK	TPDKAFQDKL	KAKGKSALMF	KNKHMNADTD	GVLSAGINAA	TMENAQKGEI	NLGIEGRISE	tdqpiyrlkl	<u>entsseves1</u>	
	WINGDKGYNG	YAQSGLLAEI	EEIPALDKEL	AGLTFLVDLI	FKGQPSKPFV	ELAKDPRIAA	SININININININI	aaailathir	rldsladgas	
A	MKTEEGKLVI	IFWAHDRFGG	DLLPNPPKTW	DVGVDNAGAK AGLTFLVDLI	VNYGVTVLPT	GAVALKSYEE	ALKDAQTNSS	skpegggkpf	vpvidlkpgd	디

		Χ	Sequence	LKTWVHN	TWVHN
	Mass	accuracy	mad	27.5	6.66
	[M+H]+	measured	mass	897.47	56.25
	[M+H]+	calculated	mass	897.4947	656.3156
В		Peptide	position	535-541	537-541

Fig. S2. MALDI peptide mapping of the 59.3 kD MB protein (Fig. 6A).

A. Underlined sequences correspond to peptides detected by MALDI. Uppercase letters match amino acids of the M-tag and lowercase letters match those of the BIL domain. Note that the C-terminus of the protein, Asn 541, is the penultimate C-terminal residue of the BIL sequence (Fig. 4).

B. Measured and calculated molecular masses of the two C-terminal peptides.